



*American Association
for Cancer Research*



The Future of Cancer Research: Science and Patient Impact **PROGRAM**

Monday, October 27

10:00 AM – 12:00 PM

**Educational Session 1: Impact of Translational Research on the Clinic –
Molecular Targeted Therapy and Patient Outcome**

Hohn Lecture Hall, Research Studies Center

Chairperson: Guido Marcucci, The Ohio State University, Columbus, OH

10:00 AM – 10:40 AM

Clinical Use of Molecular Markers in Curing Acute Myeloid Leukemia

Guido Marcucci

10:40 AM – 11:20 AM

*Integration of Molecular Mechanisms of Drug Action into Clinical
Treatment Decisions**

Gerold Bepler, H. Lee Moffitt Cancer Center and Research Institute,
Tampa, FL

11:20 AM – 12:00 PM

*Multifunctional Agents for Tumor Imaging and Therapy**

Ravindra K. Pandey, Roswell Park Cancer Institute, Buffalo, NY

10:00 AM – 12:00 PM

**Educational Session 2: Application of Innovative Technologies of the
21st Century – An Overview**

Zebro Family Conference Room, Center for Genetics and Pharmacology

Chairperson: Norma J. Nowak, Roswell Park Cancer Institute, Buffalo, NY

10:00 AM – 10:30 AM

Sequencing the Cancer Genome

Richard K. Wilson, Washington University School of Medicine, St. Louis,
MO

10:30 AM – 11:00 AM

*Dynamic Molecular Imaging of Signal Transduction Pathways in
Discovery Research**

David Piwnica-Worms, Washington University School of Medicine, St.
Louis, MO

**An extended abstract for this presentation is available in the Abstracts of Invited Presentations section of the Proceedings*

- 11:00 AM – 11:30 AM *Biomedical Informatics: Enabling Cancer Researchers to See the Forest AND the Trees**
Kenneth H. Buetow, National Cancer Institute, Bethesda, MD
- 11:30 AM – 12:00 PM Panel Discussion
- 12:00 PM – 12:45 PM Lunch**
Gaylord Cary Room, Research Studies Center
- 12:45 PM – 1:00 PM Welcoming Remarks**
Hohn Lecture Hall, Research Studies Center

Donald L. Trump, President and CEO, Roswell Park Cancer Institute and
Raymond N. DuBois, President, American Association for Cancer Research
- 1:00 PM – 1:45 PM Opening Keynote Talk**
Hohn Lecture Hall, Research Studies Center
Chairpersons: Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX and Donald L. Trump, Roswell Park Cancer Institute, Buffalo, NY

*Transforming FDA Science: Implications for Cancer Research**
Frank M. Torti, Food and Drug Administration, Rockville, MD
- 1:45 PM – 3:45 PM Plenary Session 1: Experimental and Molecular Therapeutic Advances – What the Future Holds**
Hohn Lecture Hall, Research Studies Center
Chairperson: Candace S. Johnson, Roswell Park Cancer Institute, Buffalo, NY
- 1:45 PM – 2:15 PM *The HIF/VHL Pathway as a Paradigm for the Targeting of the Tumor Microenvironment Therapeutically**
Amato J. Giaccia, Stanford University School of Medicine, Stanford, CA

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- 2:15 PM – 2:45 PM *Epigenetic Contributions to Chronic Lymphocytic Leukemia**
Christoph Plass, German Cancer Research Center DKFZ, Heidelberg, Germany
- 2:45 PM – 3:15 PM *Epigenetic Silencing of Endothelial Cells in the Tumor Microenvironment**
Candace S. Johnson
- 3:15 PM – 3:45 PM *Normalizing Tumor Microenvironment to Treat Cancer: From Bench to Bedside and Back**
Rakesh K. Jain, Massachusetts General Hospital and Harvard Medical School, Boston, MA
- 3:45 PM – 4:00 PM Break**
- 4:00 PM – 6:00 PM Plenary Session 2: The Emerging Fields of Proteomics and Systems Biology**
Hohn Lecture Hall, Research Studies Center
Chairperson: Kenneth H. Buetow, National Cancer Institute, Bethesda, MD
- 4:00 PM – 4:40 PM *Fast Tracking the Development of Cancer Biomarkers Using Proteomics**
Samir M. Hanash, Fred Hutchinson Cancer Research Center, Seattle, WA
- 4:40 PM – 5:20 PM *Linking Measurement and Mathematics in a Quantitative Analysis of Anticancer Therapy**
Peter Sorger, Harvard Medical School, Boston, MA
- 5:20 PM – 6:00 PM *Systems Medicine, Transformational Technologies, and the Emergence of Predictive, Personalized, Preventive, and Participatory (P4) Medicine**
Leroy E. Hood, The Institute for Systems Biology, Seattle, WA

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7:00 PM – 9:30 PM

Opening Reception, Dinner, and Keynote Talk

Mary Seaton Room, Kleinhan's Music Hall

7:30 PM – 7:45 PM

Welcoming Remarks

Margaret Foti, American Association for Cancer Research, Philadelphia, PA; **Enrico Mihich**, Roswell Park Cancer Institute, Buffalo, NY; **Edwin A. Mirand**, Roswell Park Cancer Institute, Buffalo, NY

8:45 PM – 9:15 PM

Future Trends in Cancer Research

Donald S. Coffey, Johns Hopkins University School of Medicine, Baltimore, MD

Tuesday, October 28

7:45 AM – 8:30 AM

Continental Breakfast

Gaylord Cary Room, Research Studies Center

8:30 AM – 10:15 AM

Plenary Session 3: The Knowledge within Genomics and Cancer Genomics Research

Hohn Lecture Hall, Research Studies Center

Chairperson: Nickolas Papadopoulos, Sidney Kimmel Comprehensive Cancer Center and the Johns Hopkins Institutes' Ludwig Center for Cancer Genetics and Therapeutics, Baltimore, MD

8:30 AM – 9:05 AM

*The Genetic Landscape of Cancer**

Nickolas Papadopoulos

9:05 AM – 9:40 AM

*Deciphering Complexity in Transcription**

Moray J. Campbell, Roswell Park Cancer Institute, Buffalo, NY

9:40 AM – 10:15 AM

*Non-Coding RNA Paradigms in Medical Practice**

George A. Calin, UT M.D. Anderson Cancer Center, Houston, TX

10:15 AM – 10:30 AM

Break

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- 10:30 AM – 12:00 PM** **Plenary Session 4: The Relevance and Challenges of Cancer Prevention Research with a Focus on Molecular Epidemiology**
Hohn Lecture Hall, Research Studies Center
Chairperson: Christine B. Ambrosone, Roswell Park Cancer Institute, Buffalo, NY
- 10:30 AM – 11:00 AM *Molecular Targeting and the Prevention-Therapy Convergence**
Scott M. Lippman, UT M.D. Anderson Cancer Center, Houston, TX
- 11:00 AM – 11:30 AM *Molecular Epidemiology in Cancer Prevention and Control**
Christine B. Ambrosone
- 11:30 AM – 12:00 PM *Molecular Epidemiology: Looking Towards the Future*
Nathaniel Rothman, National Cancer Institute, Bethesda, MD
- 12:00 PM – 1:00 PM** **Lunch**
Gaylord Cary Room, Research Studies Center
- 1:00 PM – 1:45 PM** **Closing Keynote Talk**
Hohn Lecture Hall, Research Studies Center
Chairperson: Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX
- The Future of Cancer Research**
Harold L. Moses, Vanderbilt-Ingram Cancer Center, Nashville, TN
- 1:45 PM – 2:00 PM** **Closing Remarks**
Hohn Lecture Hall, Research Studies Center
Raymond N. DuBois, UT M.D. Anderson Cancer Center, Houston, TX and
Donald L. Trump, Roswell Park Cancer Institute, Buffalo, NY

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